Table S1. Mycobiont species names, voucher information, GenBank accession numbers for the ITS and *rbc*LX, and *rbc*LX phylogroups for specimens included in three datasets (1-3) used in this study. All specimens included in datasets 2 and 3 were collected in Canada, British Columbia by H. O’Brien and are deposited at DUKE (O’Brien et al. 2005, 2009, 2013). Newly generated sequences are shown in bold.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Collection Number | Species | Voucher Information / Collection Site | ITS accession number | *rbc*LX accession number | *rbc*LX phylogroup |
| **Dataset 1** |  |  |  |  |  |
| P894 | *Peltigera dolichorhiza* | Bolivia; M. Kukwa 9232; UGDA-17709 | KX897177 | KX922884 | HT33 |
| P29 | *P. dolichorhiza* | Costa Rica; J. Miadlikowska et al. s.n.; DUKE | KX897178 | KX922885 | HT42 |
| P893 | *P. dolichorhiza* | Bolivia; M. Kukwa 9740; UGDA-17730 | KX897179 | KX922886 | V |
| N999 | *P. dolichorhiza* | Reunion Island; N. Magain & E. Sérusiaux s.n.; LG | KX897180 | KX897457 | XIX |
| P28 | *P. dolichorhiza* | Costa Rica; J. Miadlikowska et al. s.n.; DUKE | KX897181 | KX897458 | XIXa |
| N789 | *P. dolichorhiza* | Madagascar; E. Sérusiaux s.n.; LG | XXXXXXXX | XXXXXXXX | XIXb |
| P1558 | *P. dolichorhiza* | Brazil, Minas Gerais, J. Miadlikowska et al. s.n.; CGMS-34474 | **YYYYYYYY** | **YYYYYYYY** | XIXb |
| P1568 | *P. dolichorhiza* | Brazil, Minas Gerais, J. Miadlikowska et al. s.n.; CGMS-34542 | **YYYYYYYY** | **YYYYYYYY** | XIXb |
| P1596 | *P. dolichorhiza* | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34453 | KX897187 | XXXXXXXX | XIXb |
| P1599 | *P. dolichorhiza* | Brazil, Minas Gerais; J. Miadlikowska et al. s.n. ?; CGMS | **YYYYYYYY** | **YYYYYYYY** | XIXb |
| P348 | *P. dolichorhiza* | Mexico; M. A. Herrera-Campos 13382; MEXU | KX897182 | KX922889 | XIXb |
| P879 | *P. dolichorhiza* | Rwanda; E. Sérusiaux PA7; LG | KX897183 | KX922890 | XIXb |
| N1942 | *P. dolichorhiza* | Panama; B. Goffinet 753; CONN | KX897184 | KX922891 | XIXc |
| P1603 | *P. dolichorhiza* | Brazil, Minas Gerais, J. Miadlikowska et al. s.n.; CGMS-34588 | **YYYYYYYY** | **YYYYYYYY** | XIXc |
| P1563 | *P. dolichorhiza* | Brazil, Minas Gerais, J. Miadlikowska et al. s.n.; CGMS-34402 | **YYYYYYYY** | **YYYYYYYY** | XIXd |
| P1574 | *P. dolichorhiza* | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34450 | KX897185 | KX922892 | XIXd |
| P1646 | *P. dolichorhiza* | Brazil, Minas Gerais, J. Miadlikowska et al. s.n.; CGMS-34453 | **YYYYYYYY** | **YYYYYYYY** | XIXd |
| P355 | *P. dolichorhiza* | Mexico; M. A. Herrera-Campos 135; MEXU | KX897186 | KX922893 | XIXd |
| P1550 | *P. dolichorhiza* | Galapagos Islands; M.A. Herrera-Campos 10693; CDS40431 | **YYYYYYYY** | **YYYYYYYY** | XIXe |
| P1552 | *P. dolichorhiza* | Galapagos Islands; P. Clerc 08-250; CDS40104 | **YYYYYYYY** | **YYYYYYYY** | XIXe |
| P1553 | *P. dolichorhiza* | Galapagos Islands; C. Truong 1231; CDS39542 | **YYYYYYYY** | **YYYYYYYY** | XIXe |
| P1567 | *P. dolichorhiza* 2 | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34530 | KX897188 | KX922894 | XIXc |
| P1575 | *P. dolichorhiza* 2 | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34456 | KX897189 | KX922895 | XIXd |
| P1236 | *P. "hawaiensis"* | USA, Hawaii; B. McCune 22196; McCune Private Coll. | KX897190 | KX922896 | XIX |
| P1644 | *P. hymenina* | Canary Islands, Tenerife; E. Sérusiaux s.n.; LG | **YYYYYYYY** | **YYYYYYYY** | V |
| P430 | *P. hymenina* | Canada, Newfoundland; J. Lendemer 10397; H | KX897191 | KX922897 | VIIIb |
| N357 | *P. hymenina* | Spain, Tenerife; E. Sérusiaux s.n.; LG | KX897192 | KX922898 | XIXb |
| N2054 | *P. hymenina* | Norway; H. Bratli 4604; O-65885 | KX897193 | KX922899 | XVI |
| P1214 | *P. hymenina* | USA, Oregon; D. Kofranek 3729; McCune Private Coll. | KX897194 | KX922900 | XVI |
| P1226 | *P. hymenina* | USA, Oregon; B. McCune 26281; McCune Private Coll. | KX897195 | KX922901 | XVI |
| P1626 | *P. hymenina* | Canada, Newfoundland; R.C. Harris 53978; NY00952834 | **YYYYYYYY** | **YYYYYYYY** | XVI |
| P1903 | *P. hymenina* | Portugal, Azores; D. Upreti 6916s; MAF | KX897208 | XXXXXXXX | XVI |
| P516 | *P. hymenina* | Portugal, Azores; E. Sérusiaux s.n.; LG | KX897196 | KX922902 | XVI |
| P517 | *P. hymenina* | Portugal, Azores; E. Sérusiaux s.n.; LG | KX897197 | KX922903 | XVI |
| P539 | *P. hymenina* | Norway; N. Magain s.n.; LG | KX897198 | KX922904 | XVI |
| P80 | *P. hymenina* | Iceland; T. Ahti 69347; H | KX897200 | KX922906 | XVI |
| P851 | *P. hymenina* | Iceland; H. G. Kristinsson 48978; AMNH-28943 | KX897201 | KX922907 | XVI |
| P870 | *P. hymenina* | Denmark; V. Alstrup s.n.; H | KX897202 | KX922908 | XVI |
| P871 | *P. hymenina* | Portugal, Azores; F. Rodriguez 0106/2010-66; B-600173049 | KX897203 | KX922909 | XVI |
| P872 | *P. hymenina* | Portugal, Azores; F. Rodriguez 0106/2010-67; B-600173186 | KX897204 | KX922910 | XVI |
| P1229 | *P. hymenina* | USA, Oregon; B. McCune 30448; McCune Private Coll. | KX897205 | KX922911 | XVIII |
| P515 | *P. melanorrhiza* | Portugal, Azores; E. Sérusiaux s.n.; LG | KX897210 | KX922914 | XVI |
| P1281 | *P. nana* 1 | China, Yunnan; J. Miadlikowska s.n.; DUKE | KX897212 | KX922915 | HT45 |
| P1666 | *P. nana* 1 | Japan, Kochi; G. Thor 21255; UPS-383534 | KX897213 | KX922916 | VIIc |
| P1282 | *P. nana* 1 | China, Yunnan; J. Miadlikowska s.n.; DUKE | KX897214 | KX922917 | XII |
| P1665 | *P. nana* 1 | China, Sichuan; N. Gustavsson 10; UPS-509502 | KX897215 | KX922918 | XII |
| P416 | *P. nana* 1 | Philippines; L. A. Ejem; H | KX897209 | KX922913 | XII |
| P609 | *P. nana* 2 | New Zealand; S. Stenroos 6037; H | KX897217 | KX922919 | HT37 |
| N1944 | *P. neopolydactyla* 1 | USA, Alaska; B. Goffinet 9424; CONN | KX897219 | KX922921 | VIIa |
| P309 | *P. neopolydactyla* 1 | Canada, Québec; J. Miadlikowska et al. s.n.; DUKE | KX897220 | KX922922 | VIIa |
| P411 | *P. neopolydactyla* 1 | Russia, Yakutia; T. Ahti 65064; H | KX897221 | KX922923 | VIIa |
| P844 | *P. neopolydactyla* 1 | Norway; N. Magain s.n.; LG | KX897222 | KX922924 | VIIa |
| P845 | *P. neopolydactyla* 1 | Norway; N. Magain s.n.; LG | KX897223 | KX922925 | VIIa |
| N1939 | *P. neopolydactyla* 1 | USA, Alabama; B. Goffinet 5209; DUKE | KX897224 | KX922926 | VIIb |
| P3065 | *P. neopolydactyla* 1 | USA, TN; J. Hollinger 2943; UBC | **YYYYYYYY** | **YYYYYYYY** | VIIb |
| P640 | *P. neopolydactyla* 1 | USA, North Carolina; J. Miadlikowska et al. s.n.; DUKE | KX897225 | KX922927 | VIIb |
| P645 | *P. neopolydactyla* 1 | USA, North Carolina; J. Miadlikowska et al. s.n.; DUKE | KX897226 | KX922928 | VIIb |
| P1252 | *P. neopolydactyla* 1 | USA, Arizona; J. Hollinger 1781; UBC | KX897227 | KX922929 | VIIc |
| P325 | *P. neopolydactyla* 1b | Peru; E. Gaya 07.14.10-19; DUKE | KX897228 | KX922930 | VIIb |
| P3001 | *P. neopolydactyla* 2ac | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska L23.1-P3001; DUKE | XXXXXXXX | XXXXXXXX | V |
| P3037 | *P. neopolydactyla* 2ac | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska 07.26.2013-P3037; DUKE | **YYYYYYYY** | **YYYYYYYY** | V |
| P1233 | *P. neopolydactyla* 2ac | USA, Montana; B. McCune 26218; B. McCune Pers. Coll. | **YYYYYYYY** | **YYYYYYYY** | XIII |
| P1591 | *P. neopolydactyla* 2ac | France; N. Magain s.n.; LG | **YYYYYYYY** | **YYYYYYYY** | XIII |
| P1659 | *P. neopolydactyla* 2ac | Japan, Hokkaido; G. Thor 25720; UPS-519479 | KX897242 | XXXXXXXX | XIII |
| P3054 | *P. neopolydactyla* 2ac | Canada, British Columbia; J. Hollinger 424; UBC | **YYYYYYYY** | **YYYYYYYY** | XIII |
| P3069 | *P. neopolydactyla* 2ac | Canada, British Columbia?, T. Goward 06-329c; UBC | XXXXXXXX | XXXXXXXX | XIII |
| P384 | *P. neopolydactyla* 2ac | Norway; N. Magain s.n.; LG | KX897237 | KX922939 | XIII |
| P386 | *P. neopolydactyla* 2ac | Norway; N. Magain s.n.; LG | KX897238 | KX922940 | XIII |
| P821 | *P. neopolydactyla* 2ac | Norway; N. Magain s.n.; LG | KX897239 | KX922941 | XIII |
| P846 | *P. neopolydactyla* 2ac | Norway; N. Magain s.n.; LG | KX897240 | KX922942 | XIII |
| P3008 | *P. neopolydactyla* 2ac | Russia, Sakhalin; S. Tchabanenko 3080; SAKH | **YYYYYYYY** | **YYYYYYYY** | XVII |
| P3009 | *P. neopolydactyla* 2ac | Russia, Sakhalin; S. Tchabanenko 3082; SAKH | XXXXXXXX | XXXXXXXX | XVII |
| P1667 | *P. neopolydactyla* 2b | Japan, Kochi; G. Thor 2127x; UPS-164500 | KX897244 | XXXXXXXX | VIIb |
| P3032 | *P. neopolydactyla* 2b | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska s.n.; DUKE | XXXXXXXX | XXXXXXXX | VIIb |
| N1913 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10122; CONN | KX897229 | KX922931 | X |
| N1914 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10125; CONN | KX897230 | KX922932 | X |
| N1916 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10126; CONN | KX897231 | KX922933 | X |
| N1926 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10128; CONN | KX897232 | KX922934 | X |
| N1927 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10127; CONN | KX897233 | KX922935 | X |
| N1929 | *P. neopolydactyla* 2b | China, Yunnan; B. Goffinet 10120; CONN | KX897234 | KX922936 | X |
| P1291 | *P. neopolydactyla* 2b | China, Yunnan; J. Miadlikowska et al. s.n.; DUKE | KX897241 | XXXXXXXX | X |
| P859 | *P. neopolydactyla* 3 | Vietnam; Vo T. P. G. G06-NL86B; B-600144665 | KX897247 | KX922943 | VIIb |
| P1283 | *P. neopolydactyla* 3 | China, Yunnan; J. Miadlikowska et al. s.n.; DUKE | KX897248 | KX922944 | X |
| P1628 | *P. neopolydactyla* 4 | USA, Maine; W. R. Buck 54962; NY-01105128 | KX897249 | KX922945 | IV |
| P1668 | *P. neopolydactyla* 4 | Japan, Hokkaido; G. Thor 24306; UPS-519471 | KX897250 | KX922946 | IV |
| P1675 | *P. neopolydactyla* 4 | Japan, Hokkaido; G. Thor 24336; UPS-519493 | KX897251 | KX922947 | IV |
| P3014 | *P. neopolydactyla* 4 | USA, Michigan; J. Miadlikowska & F. Lutzoni 06.27.2013; DUKE | **YYYYYYYY** | **YYYYYYYY** | IV |
| P302 | *P. neopolydactyla* 4 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897252 | KX897483 | IV |
| P3023 | *P. neopolydactyla* 4 | Canada, Québec R. Darnajoux P3023.; DUKE | **YYYYYYYY** | **YYYYYYYY** | IV |
| P3024 | *P. neopolydactyla* 4 | Canada, Québec R. Darnajoux P3024.; DUKE | XXXXXXXX | XXXXXXXX | IV |
| P321 | *P. neopolydactyla* 4 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897253 | KX922949 | IV |
| P591 | *P. neopolydactyla* 4 | Norway; N. Magain s.n.; LG | KX897254 | KX922950 | IV |
| P811 | *P. neopolydactyla* 4 | Norway; N. Magain s.n.; LG | KX897255 | KX922951 | IV |
| P1212 | *P. neopolydactyla* 4 | Norway; N. Magain s.n.; LG | KX897256 | KX922952 | XIa |
| P506 | *P. neopolydactyla* 4 | Norway; N. Magain s.n.; LG | KX897257 | KX922953 | XIa |
| P669 | *P. neopolydactyla* 4 | Norway; N. Magain s.n.; LG | KX897258 | KX922954 | XIa |
| P1228 | *P. neopolydactyla* 5 | USA, Oregon; B. McCune 30018; McCune Private Coll. | KX897259 | KX922955 | XIb |
| P1232 | *P. neopolydactyla* 5 | USA, Oregon; B. McCune 26873; McCune Private Coll. | KX897260 | KX922956 | XIb |
| P1257 | *P. neopolydactyla* 5 | USA, Oregon; J. Hollinger 1385; UBC | KX897261 | KX922957 | XIb |
| P1677 | *P. neopolydactyla* 5 | USA, Oregon; B. McCune 26977; McCune Private Coll. | KX897262 | KX922958 | XIb |
| P3068 | *P. neopolydactyla* 5 | Canada, British Columbia; T. Goward 09-232; UBC | **YYYYYYYY** | **YYYYYYYY** | XIb |
| P1223 | *P. neopolydactyla* 6 | USA, Oregon; McCune Private Coll. | KX897263 | KX922959 | XIII |
| P1231 | *P. neopolydactyla* 6 | USA, Oregon; B. McCune 24160; McCune Private Coll. | KX897264 | KX922960 | XIII |
| N1886 | *P. neopolydactyla* 6 | USA, Oregon; B. Goffinet 8056; CONN | KX897265 | KX922961 | XVII |
| N1888 | *P. neopolydactyla* 6 | USA, Oregon; B. Goffinet 8049; CONN | KX897266 | KX922962 | XVII |
| P1258 | *P. neopolydactyla* 6 | Canada, British Columbia; C. Björk 17289; UBC | KX897267 | KX922963 | XVII |
| P3051 | *P. neopolydactyla* 6 | USA, Oregon; J. Hollinger 1386; UBC | XXXXXXXX | XXXXXXXX | XVII |
| P3010 | *P. neopolydactyla* 7 | Russia, Sakhalin; S. Tchabanenko 3072; SAKH | XXXXXXXX | XXXXXXXX | XVII |
| P108 | *P. occidentalis* | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897268 | KX922964 | VIIa |
| P299 | *P. occidentalis* | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897269 | KX922965 | VIIa |
| P314 | *P. occidentalis* | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897270 | KX922966 | VIIa |
| P410 | *P. occidentalis* | Russia, Siberia; T. N. Otnyukova s.n.; H | KX897271 | KX922967 | VIIa |
| P543 | *P. occidentalis* | Norway; N. Magain s.n.; LG | KX897272 | KX922968 | VIIa |
| P571 | *P. occidentalis* | Norway; N. Magain s.n.; LG | KX897273 | KX922969 | VIIa |
| P853 | *P. occidentalis* | USA, Alaska; T. Ahti 63310; H | KX897274 | KX922970 | VIIa |
| P1638 | *P. occidentalis* | USA, North Carolina; Richard C. Harris 52559; NY | KX897275 | KX922971 | VIIb |
| P3034 | *P. occidentalis* | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska 07.26.2013-P3034; DUKE | XXXXXXXX | XXXXXXXX | VIIb |
| P3063 | *P. occidentalis* | USA, North Carolina; J. Hollinger 2957; UBC | **YYYYYYYY** | **YYYYYYYY** | VIIb |
| P3064 | *P. occidentalis* | USA, North Carolina; J. Hollinger 1828; UBC | **YYYYYYYY** | **YYYYYYYY** | VIIb |
| P1240 | *P. pacifica* | Canada, British Columbia; T. Goward 06-23; UBC | KX897280 | KX922972 | XIII |
| P1241 | *P. pacifica* | Canada, British Columbia; C. Björk 17500; UBC | KX897281 | KX922973 | XIII |
| P1242 | *P. pacifica* | Canada, British Columbia; T. Goward 06-1133; UBC | KX897282 | KX922974 | XIII |
| P1243 | *P. pacifica* | Canada, British Columbia; T. Goward 06-1522; UBC | KX897283 | KX922975 | XIII |
| P3049 | *P. pacifica* | Canada, British Columbia; C. Bjork 19562; UBC | **YYYYYYYY** | **YYYYYYYY** | XVII |
| N2069 | *P. polydactylon ssp. polydactylon* | Norway; J. Holtan-Hartwig 528; O | KX365447 | KX922976 | V |
| P1213 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX897285 | KX922977 | V |
| P3018 | *P. polydactylon ssp. polydactylon* | Turkey; K. Yazici s.n.;H | KX365432 | **YYYYYYYY** | V |
| P385 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX365448 | KX922979 | V |
| P388 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX365449 | KX922980 | V |
| P682 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX897287 | KX922981 | V |
| P816 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX897288 | KX922983 | V |
| P833 | *P. polydactylon ssp. polydactylon* | Norway; N. Magain s.n.; LG | KX897289 | KX922984 | V |
| P856 | *P. polydactylon ssp. polydactylon* | Iran; A. A. Maassoumi 573; B-600114374 | KX365446 | KX922985 | V |
| P1235 | *P. polydactylon ssp. udeghe* | USA, Alaska; B. McCune 26434; McCune Private Coll. | KX897286 | KX922978 | V |
| P3012 | *P. polydactylon ssp. udeghe* | Russia, Khabarovsk Territory; J. Miadlikowska & F. Lutzoni 07.30.2013; DUKE | KX365429 | **YYYYYYYY** | V |
| P3015 | *P. polydactylon ssp. udeghe* | USA, Michigan; J. Miadlikowska & F. Lutzoni 06.27.2013; DUKE | KX365469 | XXXXXXXX | V |
| P3019 | *P. polydactylon ssp. udeghe* | New Zealand; L. Tibell 10710; H | **YYYYYYYY** | **YYYYYYYY** | V |
| P3022 | *P. polydactylon ssp. udeghe* | Australia; H. Streimann 43811; H | KX365427 | **YYYYYYYY** | V |
| P3033 | *P. polydactylon ssp. udeghe* | Russia, Khabarovsk Territory; J. Miadlikowska & F. Lutzoni 07.30.2013; DUKE | KX365430 | **YYYYYYYY** | V |
| P3048 | *P. polydactylon ssp. udeghe* | USA, New Mexico; J. Hollinger 2399; UBC | **YYYYYYYY** | **YYYYYYYY** | V |
| P71 | *P. polydactylon ssp. udeghe* | USA, New Mexico; J. Hollinger 2462; DUKE | KX365444 | KX922982 | V |
| P890 | *P. pulverulenta* 1 | Bolivia; M. Kukwa 8536; UGDA-17702 | KX897290 | KX922986 | HT41 |
| P1566 | *P. pulverulenta* 1 | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34566 | KX897292 | KX922988 | XIX |
| P897 | *P. pulverulenta* 1 | Mexico; M. A. Herrera-Campos 122; MEXU | KX897291 | KX922987 | XIX |
| P1572 | *P. pulverulenta* 1 | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34445 | KX897293 | KX922989 | XIXb |
| P928 | *P. pulverulenta* 1 | Colombia; R. Lücking MPNNC214; UDBC | KX897294 | KX922990 | XVa |
| P900 | *P. pulverulenta* 2 | Colombia; R. Lücking 33367; UDBC | KX897299 | KX922992 | XIX |
| P1521 | *P. pulverulenta* 2 | Colombia; R. Lücking 34028; UDBC | KX897298 | KX922991 | XIXa |
| P1522 | *P. pulverulenta* 3 | Colombia; R. Lücking 34033; UDBC | KX897300 | KX922993 | HT34 |
| P1210 | *P. scabrosa* 1 | Norway; N. Magain s.n.; LG | KX897301 | KX922994 | VIIa |
| P1250 | *P. scabrosa* 1 | Canada, Alberta; J. Hollinger 1066; UBC | KX897302 | KX922995 | VIIa |
| P1539 | *P. scabrosa* 1 | Russia, Siberia; J. Miadlikowska et al. s.n.; DUKE | KX897303 | KX922996 | VIIa |
| P306 | *P. scabrosa* 1 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897304 | KX922997 | VIIa |
| P311 | *P. scabrosa* 1 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897305 | KX922998 | VIIa |
| P93 | *P. scabrosa* 1 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897306 | KX922999 | VIIa |
| P97 | *P. scabrosa* 1 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897307 | KX923000 | VIIa |
| P1328 | *P. scabrosa* 2 | Canada, Nunavik; J. Gagnon; QFA-0594938 | KX897401 | KX923001 | VIId |
| P1721 | *P. scabrosa* 2 | Greenland; E. Sérusiaux s.n.; LG | KX897309 | KX923002 | VIId |
| P107 | *P. scabrosa* 2 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897310 | KX923003 | XIa |
| P113 | *P. scabrosa* 2 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897311 | KX923004 | XIa |
| P1209 | *P. scabrosa* 2 | Norway; N. Magain s.n.; LG | KX897312 | KX923005 | XIa |
| P1255 | *P. scabrosa* 2 | Canada, British Columbia; C. Björk 16230; UBC | KX897313 | KX923006 | XIa |
| P1540 | *P. scabrosa* 2 | Russia, Siberia; J. Miadlikowska et al. s.n.; DUKE | KX897314 | KX923007 | XIa |
| P296 | *P. scabrosa* 2 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897315 | KX923008 | XIa |
| P3030 | *P. scabrosa* 2 | Canada, Québec R. Darnajoux P3030.; DUKE | **YYYYYYYY** | **YYYYYYYY** | XIa |
| P520 | *P. scabrosa* 2 | Norway; N. Magain s.n.; LG | KX897316 | KX923009 | XIa |
| P617 | *P. scabrosa* 2 | Norway; N. Magain s.n.; LG | KX897317 | KX923010 | XIa |
| P830 | *P. scabrosa* 2 | Norway; N. Magain s.n.; LG | KX897318 | KX923011 | XIa |
| P865 | *P. scabrosa* 3 | Russia, Yakutia; T. Ahti 65068; H | KX897319 | KX923012 | VIIa |
| N1236 | *P. scabrosa* 3 | Greenland; E. Sérusiaux s.n.; LG | KX897320 | KX923013 | VIIc |
| P1536 | *P. scabrosa* 3 | Russia, Siberia; J. Miadlikowska et al. s.n.; DUKE | KX897321 | KX923014 | X |
| P1538 | *P. scabrosa* 3 | Russia, Siberia; J. Miadlikowska et al. s.n.; DUKE | KX897322 | KX923015 | X |
| P312 | *P. scabrosa* 4 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897323 | KX923016 | VIIa |
| P315 | *P. scabrosa* 4 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897324 | KX923017 | VIIa |
| P318 | *P. scabrosa* 4 | Canada, Québec; F. Lutzoni et al. s.n.; DUKE | KX897325 | KX923018 | VIIa |
| P529 | *P. scabrosa* 4 | Norway; N. Magain s.n.; LG | KX897326 | KX923019 | VIIa |
| P549 | *P. scabrosa* 4 | Norway; N. Magain s.n.; LG | KX897327 | KX923020 | VIIa |
| P391 | *P. scabrosella* | Norway; N. Magain s.n.; LG | KX897328 | KX923021 | XIa |
| P514 | *P. scabrosella* | Norway; N. Magain s.n.; LG | KX897329 | KX923022 | XIa |
| P619 | *P. scabrosella* | Norway; N. Magain s.n.; LG | KX897330 | KX923023 | XIa |
| P854 | *P. scabrosella* | Greenland; E. S. Hansen; H-548 | KX897331 | KX923024 | XIa |
| P905 | *P*. sp. 1 | Colombia; R. Lücking 33334; UDBC | KX897333 | KX923026 | HT40 |
| P889 | *P*. sp. 1 | Bolivia; M. Kukwa 9440; UGDA-17715 | KX897334 | KX923027 | XIX |
| P885 | *P*. sp. 1 | Bolivia; M. Kukwa 9276; UGDA-17710 | KX897335 | KX923028 | XIXc |
| P886 | *P*. sp. 1 | Bolivia; M. Kukwa 9327; UGDA-17713 | KX897336 | KX923029 | XIXc |
| P1652 | *P. seneca* | Canada, Nova Scotia; NY | KX365450 | KX923079 | V |
| P3050 | *P. seneca* | USA, North Carolina; J. Hollinger 670; UBC | KX365472 | XXXXXXXX | V |
| P450 | *P. seneca* | USA, Pennsylvania; J. Lendemer 16792; NY | KX365451 | KX923080 | V |
| N1532 | *P*. sp. 11 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897391 | KX923081 | IX |
| N1533 | *P*. sp. 11 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897392 | KX923082 | IX |
| N1537 | *P*. sp. 11 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897393 | KX923083 | IX |
| N1547 | *P*. sp. 11 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897394 | KX923084 | IX |
| P1555 | *P.* sp. 2a | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34544 | KX897338 | KX923030 | XIXb |
| P1570 | *P*. sp. 2a | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS- 34526 | KX897339 | KX923031 | XIXb |
| P907 | *P*. sp. 2a | Colombia; R. Lücking 33361; UDBC | KX897340 | KX923032 | Xva |
| P1561 | *P*. sp. 2b | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS-34399 | KX897341 | KX923033 | V |
| P1557 | *P*. sp. 2b | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS- 34562 | KX897342 | KX923034 | XIXd |
| P1583 | *P*. sp. 2b | Brazil, Minas Gerais; J. Miadlikowska et al. s.n.; CGMS- 34428 | KX897343 | KX923035 | XIXd |
| P611 | *P*. sp. 3 | New Zealand; F. Högnabba 1746; H | KX897344 | KX923036 | V |
| P604 | *P*. sp. 3 | New Zealand; F. Högnabba 1538; H | KX897346 | KX923038 | XX |
| P606 | *P*. sp. 3 | New Zealand; S. Stenroos 5942; H | KX897347 | KX923039 | XX |
| P607 | *P*. sp. 3 | New Zealand; S. Stenroos 5820; H | KX897348 | KX923040 | XX |
| P608 | *P*. sp. 3 | New Zealand; S. Stenroos 5830; H | KX897349 | KX923041 | XX |
| P610 | *P*. sp. 3 | New Zealand; F. Högnabba 1575; H | KX897350 | KX923042 | XX |
| P612 | *P*. sp. 3 | New Zealand; F. Högnabba 1471; H | KX897345 | KX923037 | XX |
| N1534 | *P.* sp. 4 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897353 | KX923043 | VIIb |
| N1545 | *P.* sp. 5 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897354 | KX923044 | HT32 |
| P1716 | *P.* sp. 5 | Papua New Guinea; E. Sérusiaux s.n.; LG | KX897355 | KX923045 | X |
| P1734 | *P*. sp. 6 | Peru; N. Magain s.n.; DUKE | KX897356 | KX923046 | HT35 |
| P1650 | *P*. sp. 6 | Honduras; B. Allen 17790; NY | KX897357 | KX923047 | HT44 |
| P1733 | *P*. sp. 6 | Peru; J. Miadlikowska et al. s.n.; DUKE | KX897358 | KX923048 | HT46 |
| P936 | *P*. sp. 6 | Colombia; R. Lücking 33659; UDBC | KX897359 | KX923049 | XIXb |
| P942 | *P*. sp. 6 | Colombia; R. Lücking 33658; UDBC | KX897360 | KX923050 | XIXb |
| N1674 | *P.* sp. 7a | Canada, British Columbia; T. Tönsberg 20742; BG-34877 | KX897361 | KX923051 | XIa |
| N1887 | *P.* sp. 7a | USA, Oregon; B. Goffinet 7966; CONN | KX897362 | KX923052 | XIa |
| N1932 | *P.* sp. 7a | Canada, British Columbia; B. Goffinet 3167; CONN | KX897363 | KX923053 | XIa |
| P3055 | *P.* sp. 7a | Canada, British Columbia; T. Goward 06-1371; UBC | XXXXXXXX | XXXXXXXX | XIa |
| P1660 | *P.* sp. 7b | Japan, Hokkaido; G. Thor 25408; UPS-519475 | KX897365 | KX923054 | XIa |
| P1672 | *P.* sp. 7b | Japan, Hokkaido; G. Thor; UPS | KX897366 | KX923055 | XIa |
| P1674 | *P.* sp. 7b | Japan, Hokkaido; G. Thor 25401; UPS-519496 | KX897367 | KX923056 | XIa |
| N1947 | *P*. sp. 8 | China, Yunnan; B. Goffinet 9978; CONN | KX897368 | KX923057 | HT31 |
| P1272 | *P*. sp. 8 | China, Jilin; M. Sohrabi 16572; M. Sohrabi Private Coll. | KX897369 | KX923058 | HT43 |
| N1920 | *P*. sp. 8 | China, Yunnan; B. Goffinet 9983; CONN | KX897370 | KX923059 | HT47 |
| N1754 | *P*. sp. 8 | South Korea; J. Santosh 090187; J. Santosh Private Coll. | KX897371 | KX923060 | VIIIa |
| N1897 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10060; CONN | KX897372 | KX923061 | VIIIa |
| N1898 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10063; CONN | KX897373 | KX923062 | VIIIa |
| N1900 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10102; CONN | KX897374 | KX923063 | VIIIa |
| N1922 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10072; CONN | KX897375 | KX923064 | VIIIa |
| N1924 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10095; CONN | KX897376 | KX923065 | VIIIa |
| N1928 | *P*. sp. 8 | China, Yunnan; B. Goffinet 10107; CONN | KX897377 | KX923066 | VIIIa |
| P1237 | *P*. sp. 8 | Taiwan; A. Mikulin T71; A. Mikulin Private Coll. | KX897378 | KX923067 | VIIIa |
| P1299 | *P*. sp. 8 | China, Yunnan; J. Miadlikowska et al. s.n.; DUKE | KX897379 | KX923068 | VIIIa |
| P3013 | *P*. sp. 8 | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska -P3013.; DUKE | XXXXXXXX | XXXXXXXX | VIIIa |
| N1748 | *P*. sp. 8 | South Korea; J. Santosh 080042; J. Santosh Private Coll. | KX897380 | KX923069 | XIV |
| N1752 | *P*. sp. 8 | South Korea; J. Santosh 090132; J. Santosh Private Coll. | KX897381 | KX923070 | XIV |
| N1766 | *P*. sp. 8 | South Korea; J. Santosh 040808; J. Santosh Private Coll. | KX897382 | KX923071 | XIV |
| P3035 | *P*. sp. 8 | Russia, Khabarovsk Territory; F. Lutzoni and J. Miadlikowska -P3035.; DUKE | **YYYYYYYY** | **YYYYYYYY** | XIV |
| N1907 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10100; CONN | KX897383 | KX923072 | VIIIa |
| N1908 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10040; CONN | KX897384 | KX923073 | VIIIa |
| N1918 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10101; CONN | KX897385 | KX923074 | VIIIa |
| N1921 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10064; CONN | KX897386 | KX923075 | VIIIa |
| N1923 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10073; CONN | KX897387 | KX923076 | VIIIa |
| N1936 | *P.* sp. 9 | China, Yunnan; B. Goffinet 10108; CONN | KX897388 | KX923077 | VIIIa |
| P1508 | *P.* sp. 9 | China, Yunnan; J. Miadlikowska et al. s.n.; DUKE | KX897389 | KX923078 | VIIIa |
| P332 | *P. truculenta* | Chile; T. Wheeler 89; T. Wheeler Private Coll. | KX897396 | KX923085 | HT36 |
| P329 | *P. truculenta* | Chile; P. Nelson 4362; T. Wheeler Private Coll. | KX897397 | KX923086 | HT38 |
| P1251 | *P. truculenta* | Chile; J. Hollinger 1925; UBC | KX897398 | KX923087 | VIIIb |
| P335 | *P. truculenta* | Chile; T. Wheeler 1093; T. Wheeler Private Coll. | KX897399 | KX923088 | VIIIb |
| P3057 | *P. truculenta* | Chile, J. Hollinger 1936; UBC | **YYYYYYYY** | **YYYYYYYY** | XVb |
| P330 | *P. truculenta* | Chile; T. Wheeler 3826; T. Wheeler Private Coll. | KX897400 | KX923089 | XVb |
| **Datasets 2 and 3** |  |  |  |  |  |
| HOB040605-03-1 | *P. aphthosa* 5 | Ghost Lake | KC437627 | KC437880 | IV |
| HOB040605-09-2 | *P. aphthosa* 5 | Ghost Lake | KC437624 | KC437898 | IV |
| HOB020708-0-5-7 | *P. aphthosa* 5 | Spahats Creek | KC437625 | KC437841 | IV |
| HOB020708-35-5-4 | *P. aphthosa* 5 | Spahats Creek | FJ708820 | KC437651 | IV |
| HOB020708-35-5-6 | *P. aphthosa* 5 | Spahats Creek | FJ708821 | KC437652 | IV |
| HOB020708-4-1-5 | *P. aphthosa* 5 | Spahats Creek | FJ708822 | KC437653 | IV |
| HOB020708-4-1-9 | *P. aphthosa* 5 | Spahats Creek | KC437623 | KC437849 | IV |
| HOB020708-4-5-7 | *P. aphthosa* 5 | Spahats Creek | FJ708823 | KC437654 | IV |
| HOB020708-66-9-10 | *P. aphthosa* 5 | Spahats Creek | FJ708830 | KC437661 | IV |
| HOB020708-66-9-6 | *P. aphthosa* 5 | Spahats Creek | FJ708831 | KC437662 | IV |
| HOB020708-66-9-8 | *P. aphthosa* 5 | Spahats Creek | FJ708832 | KC437663 | IV |
| HOB020708-8-5-9 | *P. aphthosa* 5 | Spahats Creek | FJ708841 | KC437668 | IV |
| HOB020708-8-9-5 | *P. aphthosa* 5 | Spahats Creek | FJ708837 | KC437667 | IV |
| HOB020708-31-1-8 | *P. aphthosa* 5 | Spahats Creek | FJ708844 | KC437670 | VIa |
| HOB020708-35-5-5 | *P. aphthosa* 5 | Spahats Creek | FJ708845 | KC437671 | VIa |
| HOB020708-39-1-9 | *P. aphthosa* 5 | Spahats Creek | FJ708842 | KC437669 | VIa |
| HOB020708-4-9-4 | *P. aphthosa* 5 | Spahats Creek | FJ708824 | KC437655 | VIa |
| HOB020708-4-9-5 | *P. aphthosa* 5 | Spahats Creek | KC437615 | KC437853 | VIa |
| HOB020708-4-9-6 | *P. aphthosa* 5 | Spahats Creek | FJ708825 | KC437656 | VIa |
| HOB020708-4-9-7 | *P. aphthosa* 5 | Spahats Creek | FJ708826 | KC437657 | VIa |
| HOB020708-62-5-10 | *P. aphthosa* 5 | Spahats Creek | KC437614 | KC437854 | VIa |
| HOB020708-62-5-6 | *P. aphthosa* 5 | Spahats Creek | FJ708827 | KC437658 | VIa |
| HOB020708-66-5-10 | *P. aphthosa* 5 | Spahats Creek | FJ708828 | KC437659 | VIa |
| HOB020708-66-5-6 | *P. aphthosa* 5 | Spahats Creek | FJ708829 | KC437660 | VIa |
| HOB020708-70-9-10 | *P. aphthosa* 5 | Spahats Creek | KC437616 | KC437863 | VIa |
| HOB020708-8-5-10 | *P. aphthosa* 5 | Spahats Creek | FJ708833 | KC437664 | VIa |
| HOB020708-8-5-3 | *P. aphthosa* 5 | Spahats Creek | FJ708834 | KC437665 | VIa |
| HOB020708-8-5-7 | *P. aphthosa* 5 | Spahats Creek | FJ708835 | KC437666 | VIa |
| HOB030611-0-10-1 | *P. britannica* | Battle Creek | KC437630 | KC437865 | VIa |
| HOB030611-0-10-2 | *P. britannica* | Battle Creek | FJ708846 | KC437672 | VIa |
| HOB030611-0-5-1 | *P. britannica* | Battle Creek | KC437617 | KC437866 | VIa |
| HOB030611-0-5-2 | *P. britannica* | Battle Creek | KC437618 | KC437867 | VIa |
| HOB030611-10-0-1 | *P. britannica* | Battle Creek | FJ708853 | KC437677 | VIa |
| HOB030611-5-5-1 | *P. britannica* | Battle Creek | FJ708854 | KC437678 | VIa |
| HOB040605-02-3 | *P. britannica* | Cameron Ridge | KC437631 | KC437878 | Ia |
| HOB040605-04-3 | *P. britannica* | Ghost Lake | KC437633 | KC437884 | IV |
| HOB040605-06-3 | *P. britannica* | Ghost Lake | KC437634 | KC437892 | IV |
| HOB040605-07-2 | *P. britannica* | Ghost Lake | KC437632 | KC437894 | IV |
| HOB020708-0-1-9 | *P. britannica* | Spahats Creek | FJ708857 | KC437679 | VIa |
| HOB020708-31-5-6 | *P. britannica* | Spahats Creek | FJ708852 | KC437676 | VIa |
| HOB020708-39-1-10 | *P. britannica* | Spahats Creek | FJ708858 | KC437680 | VIa |
| HOB020708-39-1-7 | *P. britannica* | Spahats Creek | FJ708848 | KC437673 | VIa |
| HOB020708-66-5-7 | *P. britannica* | Spahats Creek | FJ708850 | KC437674 | VIa |
| HOB020708-66-5-8 | *P. britannica* | Spahats Creek | FJ708851 | KC437675 | VIa |
| HOB030611-10-10-4 | *P. canina* 1 | Battle Creek | FJ708887 | KC437706 | V |
| HOB030611-0-0-6 | *P. canina* 1 | Battle Creek | FJ708881 | KC437700 | VIa |
| HOB030611-0-0-7 | *P. canina* 1 | Battle Creek | FJ708882 | KC437701 | VIa |
| HOB030611-0-10-4 | *P. canina* 1 | Battle Creek | FJ708883 | KC437702 | VIa |
| HOB030611-10-0-3 | *P. canina* 1 | Battle Creek | FJ708884 | KC437703 | VIa |
| HOB030611-10-0-5 | *P. canina* 1 | Battle Creek | FJ708885 | KC437704 | VIa |
| HOB030611-10-0-6 | *P. canina* 1 | Battle Creek | FJ708886 | KC437705 | VIa |
| HOB030611-5-10-6 | *P. canina* 1 | Battle Creek | FJ708891 | KC437710 | Via |
| HOB030611-10-5-2 | *P. canina* 1 | Battle Creek | FJ708888 | KC437707 | Vib |
| HOB030611-10-5-5 | *P. canina* 1 | Battle Creek | FJ708889 | KC437708 | Vib |
| HOB020708-4-5-1 | *P. canina* 1 | Spahats Creek | FJ708890 | KC437709 | V |
| HOB020708-0-1-1 | *P. canina* 1 | Spahats Creek | FJ708877 | KC437696 | VIa |
| HOB020708-0-1-2 | *P. canina* 1 | Spahats Creek | FJ708878 | KC437697 | VIa |
| HOB020708-0-1-3 | *P. canina* 1 | Spahats Creek | FJ708879 | KC437698 | VIa |
| HOB020708-39-5-2 | *P. canina* 1 | Spahats Creek | FJ708880 | KC437699 | Vib |
| HOB020708-31-5-1 | *P. canina* 2 | Spahats Creek | FJ708873 | KC437692 | VIa |
| HOB020708-31-5-2 | *P. canina* 2 | Spahats Creek | FJ708874 | KC437693 | VIa |
| HOB020708-70-1-3 | *P. canina* 2 | Spahats Creek | FJ708875 | KC437694 | VIa |
| HOB020708-70-5-2 | *P. canina* 2 | Spahats Creek | FJ708876 | KC437695 | VIa |
| HOB040605-12-3 | *P. cinnamomea* | Barkersville | FJ708911 | KC437730 | V |
| HOB040605-11-2 | *P. cinnamomea* | Barkersville | FJ708913 | KC437732 | Vib |
| HOB030611-0-0-4 | *P. cinnamomea* | Battle Creek | FJ708912 | KC437731 | V |
| HOB030611-0-5-10 | *P. cinnamomea* | Battle Creek | FJ708914 | KC437733 | Vib |
| HOB030611-0-5-7 | *P. cinnamomea* | Battle Creek | FJ708915 | KC437734 | Vib |
| HOB040605-04-1 | *P. collina* | Ghost Lake | KC437638 | KC437882 | Ib |
| HOB040605-05-3 | *P. collina* | Ghost Lake | KC437639 | KC437889 | Ib |
| HOB040605-06-1 | *P. collina* | Ghost Lake | KC437640 | KC437890 | Ib |
| HOB040605-07-1 | *P. collina* | Ghost Lake | KC437641 | KC437893 | Ib |
| HOB040605-07-3 | *P. collina* | Ghost Lake | KC437642 | KC437895 | Ib |
| HOB040605-10-3 | *P. degenii* | Barkersville | FJ709030 | KC437831 | XIII |
| HOB020708-31-1-1 | *P. "fuscopraetextata"* | Spahats Creek | FJ708903 | KC437722 | Via |
| HOB020708-31-5-3 | *P. "fuscopraetextata"* | Spahats Creek | FJ708892 | KC437711 | VIa |
| HOB020708-4-1-1 | *P. "fuscopraetextata"* | Spahats Creek | FJ708898 | KC437717 | VIa |
| HOB020708-4-1-2 | *P. "fuscopraetextata"* | Spahats Creek | FJ708899 | KC437718 | VIa |
| HOB020708-4-5-2 | *P. "fuscopraetextata"* | Spahats Creek | FJ708900 | KC437719 | VIa |
| HOB020708-62-1-2 | *P. "fuscopraetextata"* | Spahats Creek | FJ708902 | KC437721 | Via |
| HOB020708-62-5-2 | *P. "fuscopraetextata"* | Spahats Creek | KC437607 | KC437855 | Via |
| HOB020708-62-5-3 | *P. "fuscopraetextata"* | Spahats Creek | FJ708893 | KC437712 | VIa |
| HOB020708-66-1-1 | *P. "fuscopraetextata"* | Spahats Creek | FJ708894 | KC437713 | VIa |
| HOB020708-66-1-2 | *P. "fuscopraetextata"* | Spahats Creek | FJ708895 | KC437714 | VIa |
| HOB020708-8-1-2 | *P. "fuscopraetextata"* | Spahats Creek | FJ708896 | KC437715 | VIa |
| HOB020708-8-9-1 | *P. "fuscopraetextata"* | Spahats Creek | FJ708897 | KC437716 | VIa |
| HOB020708-62-5-1 | *P. "fuscopraetextata"* | Spahats Creek | FJ708901 | KC437720 | Vib |
| HOB040605-09-1 | *P. horizontalis* | Ghost Lake | KC437645 | KC437897 | V |
| HOB020708-8-1-1 | *P. horizontalis* | Spahats Creek | FJ708930 | KC437744 | V |
| HOB020708-8-5-1 | *P. horizontalis* | Spahats Creek | FJ708931 | KC437745 | V |
| HOB020708-8-5-2 | *P. horizontalis* | Spahats Creek | FJ708932 | KC437746 | V |
| HOB020708-8-9-2 | *P. horizontalis* | Spahats Creek | FJ708933 | KC437747 | V |
| HOB040605-13-4 | *P. kristinssonii* | Barkersville | FJ708951 | KC437764 | Via |
| HOB020708-62-1-4 | *P. kristinssonii* | Spahats Creek | FJ708935 | KC437748 | Via |
| HOB020708-62-1-5 | *P. kristinssonii* | Spahats Creek | FJ708952 | KC437765 | VIa |
| HOB020708-62-1-6 | *P. kristinssonii* | Spahats Creek | FJ708936 | KC437749 | Via |
| HOB020708-62-1-7 | *P. kristinssonii* | Spahats Creek | FJ708937 | KC437750 | Via |
| HOB020708-66-1-5 | *P. kristinssonii* | Spahats Creek | FJ708938 | KC437751 | Via |
| HOB020708-66-5-3 | *P. kristinssonii* | Spahats Creek | FJ708953 | KC437766 | VIa |
| HOB020708-66-5-4 | *P. kristinssonii* | Spahats Creek | FJ708939 | KC437752 | Via |
| HOB020708-66-5-5 | *P. kristinssonii* | Spahats Creek | FJ708940 | KC437753 | VIa |
| HOB020708-70-1-1 | *P. kristinssonii* | Spahats Creek | FJ708941 | KC437754 | VIa |
| HOB020708-70-1-5a | *P. kristinssonii* | Spahats Creek | KC437637 | KC437861 | VIa |
| HOB020708-70-5-7 | *P. kristinssonii* | Spahats Creek | FJ708942 | KC437755 | VIa |
| HOB020708-70-5-8 | *P. kristinssonii* | Spahats Creek | FJ708943 | KC437756 | VIa |
| HOB020708-70-5-9 | *P. kristinssonii* | Spahats Creek | FJ708944 | KC437757 | VIa |
| HOB020708-70-9-1 | *P. kristinssonii* | Spahats Creek | FJ708945 | KC437758 | VIa |
| HOB020708-70-9-2 | *P. kristinssonii* | Spahats Creek | FJ708946 | KC437759 | VIa |
| HOB020708-70-9-3 | *P. kristinssonii* | Spahats Creek | FJ708947 | KC437760 | VIa |
| HOB020708-70-9-4 | *P. kristinssonii* | Spahats Creek | FJ708948 | KC437761 | VIa |
| HOB020708-70-9-5 | *P. kristinssonii* | Spahats Creek | FJ708949 | KC437762 | VIa |
| HOB020708-70-9-6 | *P. kristinssonii* | Spahats Creek | FJ708950 | KC437763 | VIa |
| HOB040605-01-3 | *P. leucophlebia* 1 | Cameron Ridge | KC437620 | KC437875 | Ia |
| HOB040605-05-2-2 | *P. leucophlebia* 1 | Ghost Lake | KC437619 | KC437888 | Ia |
| HOB020708-4-1-7 | *P. leucophlebia* 1 | Spahats Creek | FJ709013 | KC437817 | Ia |
| HOB020708-0-1-6 | *P. leucophlebia* 1 | Spahats Creek | FJ709004 | KC437809 | VIa |
| HOB020708-0-1-7 | *P. leucophlebia* 1 | Spahats Creek | FJ709005 | KC437810 | VIa |
| HOB020708-0-5-5 | *P. leucophlebia* 1 | Spahats Creek | FJ709028 | KC437829 | VIa |
| HOB020708-0-9-5 | *P. leucophlebia* 1 | Spahats Creek | FJ709029 | KC437830 | VIa |
| HOB020708-35-1-6 | *P. leucophlebia* 1 | Spahats Creek | FJ709007 | KC437811 | VIa |
| HOB020708-35-5-10 | *P. leucophlebia* 1 | Spahats Creek | FJ709008 | KC437812 | VIa |
| HOB020708-35-5-7 | *P. leucophlebia* 1 | Spahats Creek | FJ709009 | KC437813 | VIa |
| HOB020708-35-5-9 | *P. leucophlebia* 1 | Spahats Creek | FJ709010 | KC437814 | VIa |
| HOB020708-39-1-5 | *P. leucophlebia* 1 | Spahats Creek | FJ709011 | KC437815 | VIa |
| HOB020708-39-1-6 | *P. leucophlebia* 1 | Spahats Creek | FJ709012 | KC437816 | VIa |
| HOB020708-4-5-5 | *P. leucophlebia* 1 | Spahats Creek | FJ709014 | KC437818 | VIa |
| HOB020708-4-9-1 | *P. leucophlebia* 1 | Spahats Creek | FJ709015 | KC437819 | VIa |
| HOB020708-4-9-2 | *P. leucophlebia* 1 | Spahats Creek | FJ709016 | KC437820 | VIa |
| HOB020708-4-9-3 | *P. leucophlebia* 1 | Spahats Creek | FJ709017 | KC437821 | VIa |
| HOB020708-62-9-3 | *P. leucophlebia* 1 | Spahats Creek | FJ709019 | KC437822 | VIa |
| HOB020708-66-5-9 | *P. leucophlebia* 1 | Spahats Creek | FJ709020 | KC437823 | VIa |
| HOB020708-8-1-4 | *P. leucophlebia* 1 | Spahats Creek | FJ709021 | KC437824 | VIa |
| HOB020708-8-1-5 | *P. leucophlebia* 1 | Spahats Creek | FJ709022 | KC437825 | VIa |
| HOB020708-8-1-9 | *P. leucophlebia* 1 | Spahats Creek | FJ709023 | KC437826 | VIa |
| HOB020708-8-9-3 | *P. leucophlebia* 1 | Spahats Creek | FJ709024 | KC437827 | VIa |
| HOB020708-8-9-4 | *P. leucophlebia* 1 | Spahats Creek | FJ709025 | KC437828 | VIa |
| HOB040605-12-2 | *P. leucophlebia* 2 | Barkersville | FJ708986 | KC437795 | VIa |
| HOB040605-11-1 | *P. leucophlebia* 2 | Barkersville | FJ708985 | KC437794 | Vib |
| HOB030611-10-5-1 | *P. leucophlebia* 2 | Battle Creek | FJ708980 | KC437789 | VIa |
| HOB030611-10-5-4 | *P. leucophlebia* 2 | Battle Creek | FJ708981 | KC437790 | VIa |
| HOB030611-10-5-6 | *P. leucophlebia* 2 | Battle Creek | FJ708982 | KC437791 | VIa |
| HOB030611-10-5-7 | *P. leucophlebia* 2 | Battle Creek | FJ708983 | KC437792 | VIa |
| HOB030611-5-10-2 | *P. leucophlebia* 2 | Battle Creek | FJ708969 | KC437780 | VIa |
| HOB030611-5-10-3 | *P. leucophlebia* 2 | Battle Creek | KC437612 | KC437871 | VIa |
| HOB030611-5-5-2 | *P. leucophlebia* 2 | Battle Creek | FJ708984 | KC437793 | VIa |
| HOB040605-02-4 | *P. leucophlebia* 2 | Cameron Ridge | KC437611 | KC437879 | IV |
| HOB040605-05-2-1 | *P. leucophlebia* 2 | Ghost Lake | KC437610 | KC437887 | IV |
| HOB020708-70-1-9 | *P. leucophlebia* 2 | Spahats Creek | FJ708964 | KC437775 | Ia |
| HOB020708-35-5-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708988 | KC437797 | IV |
| HOB020708-0-1-4 | *P. leucophlebia* 2 | Spahats Creek | FJ708970 | KC437781 | VIa |
| HOB020708-0-1-5 | *P. leucophlebia* 2 | Spahats Creek | FJ708971 | KC437782 | VIa |
| HOB020708-0-1-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708954 | KC437767 | VIa |
| HOB020708-0-5-2 | *P. leucophlebia* 2 | Spahats Creek | FJ708987 | KC437796 | VIa |
| HOB020708-0-5-4 | *P. leucophlebia* 2 | Spahats Creek | KC437613 | KC437840 | VIa |
| HOB020708-0-9-4 | *P. leucophlebia* 2 | Spahats Creek | FJ708955 | KC437768 | VIa |
| HOB020708-0-9-6 | *P. leucophlebia* 2 | Spahats Creek | FJ708956 | KC437769 | VIa |
| HOB020708-0-9-7 | *P. leucophlebia* 2 | Spahats Creek | FJ708957 | KC437770 | VIa |
| HOB020708-31-5-7 | *P. leucophlebia* 2 | Spahats Creek | FJ708972 | KC437783 | VIa |
| HOB020708-31-5-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708973 | KC437784 | VIa |
| HOB020708-31-9-5 | *P. leucophlebia* 2 | Spahats Creek | FJ708959 | KC437771 | VIa |
| HOB020708-31-9-7 | *P. leucophlebia* 2 | Spahats Creek | FJ708960 | KC437772 | VIa |
| HOB020708-4-1-4 | *P. leucophlebia* 2 | Spahats Creek | FJ708962 | KC437773 | VIa |
| HOB020708-4-1-6 | *P. leucophlebia* 2 | Spahats Creek | KC437608 | KC437848 | VIa |
| HOB020708-4-1-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708963 | KC437774 | VIa |
| HOB020708-4-5-4 | *P. leucophlebia* 2 | Spahats Creek | FJ708974 | KC437785 | VIa |
| HOB020708-4-5-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708975 | KC437786 | VIa |
| HOB020708-62-9-6 | *P. leucophlebia* 2 | Spahats Creek | FJ708977 | KC437787 | VIa |
| HOB020708-70-1-10 | *P. leucophlebia* 2 | Spahats Creek | KC437609 | KC437860 | VIa |
| HOB020708-70-9-7 | *P. leucophlebia* 2 | Spahats Creek | FJ708965 | KC437776 | VIa |
| HOB020708-70-9-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708966 | KC437777 | VIa |
| HOB020708-8-1-10 | *P. leucophlebia* 2 | Spahats Creek | FJ708978 | KC437788 | VIa |
| HOB020708-8-1-7 | *P. leucophlebia* 2 | Spahats Creek | FJ708967 | KC437778 | VIa |
| HOB020708-8-1-8 | *P. leucophlebia* 2 | Spahats Creek | FJ708996 | KC437802 | VIa |
| HOB020708-8-5-4 | *P. leucophlebia* 2 | Spahats Creek | FJ708968 | KC437779 | VIa |
| HOB020708-8-5-5 | *P. leucophlebia* 2 | Spahats Creek | FJ708990 | KC437799 | VIa |
| HOB020708-8-5-6 | *P. leucophlebia* 2 | Spahats Creek | FJ708991 | KC437800 | VIa |
| HOB040605-13-5 | *P. leucophlebia* 3 | Barkersville | FJ708994 | KC437801 | unique 4 |
| HOB040605-13-1 | *P. leucophlebia* 3 | Barkersville | FJ708989 | KC437798 | VIa |
| HOB020708-66-1-7 | *P. leucophlebia* 3 | Spahats Creek | FJ708997 | KC437803 | VIa |
| HOB030611-0-0-3 | *P. leucophlebia* 4 | Battle Creek | FJ709001 | KC437806 | VIa |
| HOB030611-0-10-3 | *P. leucophlebia* 4 | Battle Creek | FJ708998 | KC437804 | VIa |
| HOB030611-0-5-5 | *P. leucophlebia* 4 | Battle Creek | FJ709002 | KC437807 | VIa |
| HOB030611-5-10-4 | *P. leucophlebia* 4 | Battle Creek | FJ708999 | KC437805 | VIa |
| HOB030611-5-10-5 | *P. leucophlebia* 4 | Battle Creek | FJ709003 | KC437808 | VIa |
| HOB020708-31-1-2 | *P. malacea* 1 | Spahats Creek | FJ708872 | KC437691 | III |
| HOB040605-03-2 | *P. malacea* 5 | Ghost Lake | KC437621 | KC437881 | III |
| HOB040605-07-4 | *P. malacea* 5 | Ghost Lake | KC437629 | KC437896 | III |
| HOB040605-04-2 | *P. malacea* 5 | Ghost Lake | KC437628 | KC437883 | IV |
| HOB020708-31-1-3 | *P. malacea* 5 | Spahats Creek | FJ708871 | KC437690 | III |
| HOB020708-31-1-4 | *P. malacea* 5 | Spahats Creek | FJ708859 | KC437681 | III |
| HOB020708-31-5-4 | *P. malacea* 5 | Spahats Creek | FJ708860 | KC437682 | III |
| HOB020708-35-1-2 | *P. malacea* 5 | Spahats Creek | FJ708861 | KC437683 | III |
| HOB020708-35-1-3 | *P. malacea* 5 | Spahats Creek | FJ708862 | KC437684 | III |
| HOB020708-35-1-4 | *P. malacea* 5 | Spahats Creek | FJ708863 | KC437685 | III |
| HOB020708-35-5-2 | *P. malacea* 5 | Spahats Creek | KC437626 | KC437846 | III |
| HOB020708-62-5-4 | *P. malacea* 5 | Spahats Creek | KC437622 | KC437856 | III |
| HOB020708-70-5-3 | *P. malacea* 5 | Spahats Creek | FJ708864 | KC437686 | III |
| HOB020708-70-5-4 | *P. malacea* 5 | Spahats Creek | FJ708865 | KC437687 | III |
| HOB020708-70-5-5 | *P. malacea* 5 | Spahats Creek | FJ708866 | KC437688 | III |
| HOB020708-70-5-6 | *P. malacea* 5 | Spahats Creek | FJ708867 | KC437689 | III |
| HOB040605-10-1 | *P. membranacea* | Barkersville | FJ709034 | KC437835 | XIII |
| HOB040605-01-2 | *P. membranacea* | Cameron Ridge | KC437646 | KC437874 | unique 2 |
| HOB020708-0-9-1 | *P. membranacea* | Spahats Creek | FJ709031 | KC437832 | V |
| HOB020708-0-9-2 | *P. membranacea* | Spahats Creek | FJ709032 | KC437833 | V |
| HOB020708-0-9-3 | *P. membranacea* | Spahats Creek | FJ709033 | KC437834 | V |
| HOB040605-12-4 | *P. neckeri* | Barkersville | FJ708929 | KC437743 | Ia |
| HOB040605-13-2 | *P. neckeri* | Barkersville | FJ708928 | KC437742 | Ia |
| HOB040605-13-3 | *P. "neocanina"* | Barkersville | KC437636 | KC437900 | unique 1 |
| HOB040605-02-2 | *P. "neocanina"* | Cameron Ridge | KC437635 | KC437877 | Ia |
| HOB020708-66-5-2 | *P. "neocanina"* | Spahats Creek | FJ708916 | KC437735 | Ia |
| HOB020708-0-5-1 | *P. "neocanina"* | Spahats Creek | FJ708922 | KC437741 | V |
| HOB020708-66-9-1 | *P. "neocanina"* | Spahats Creek | FJ708917 | KC437736 | V |
| HOB020708-66-9-2 | *P. "neocanina"* | Spahats Creek | FJ708918 | KC437737 | V |
| HOB020708-66-9-3 | *P. "neocanina"* | Spahats Creek | FJ708919 | KC437738 | V |
| HOB020708-66-9-4 | *P. "neocanina"* | Spahats Creek | FJ708920 | KC437739 | V |
| HOB020708-66-9-5 | *P. "neocanina"* | Spahats Creek | FJ708921 | KC437740 | V |
| HOB040605-02-1 | *P. neopolydactyla* 1 | Cameron Ridge | KC437647 | KC437876 | VIIa |
| HOB040605-10-2 | *P. neopolydactyla* 2 | Barkersville | FJ709036 | KC437836 | XIII |
| HOB030611-10-10-3 | *P. polydactylon* ssp. *udeghe* | Battle Creek | KC437643 | KC437869 | V |
| HOB030611-10-10-6 | *P. polydactylon* ssp*. udeghe* | Battle Creek | KC437644 | KC437870 | V |
| HOB030611-0-5-6 | *P. polydactylon* ssp*. udeghe* | Battle Creek | FJ709038 | KC437837 | VIb |
| HOB020708-62-1-3 | *P. ponojensis* 3 | Spahats Creek | FJ709039 | KC437838 | Via |
| HOB020708-70-1-4 | *P. ponojensis* 5b | Spahats Creek | FJ709040 | KC437839 | Via |
| HOB030611-5-10-8 | *P. praetextata* | Battle Creek | KC437650 | KC437873 | unique 3 |
| HOB030611-0-0-5 | *P. praetextata* | Battle Creek | FJ708905 | KC437724 | VIa |
| HOB030611-0-5-8 | *P. praetextata* | Battle Creek | FJ708906 | KC437725 | VIa |
| HOB030611-5-10-7 | *P. praetextata* | Battle Creek | KC437648 | KC437872 | VIa |
| HOB020708-31-9-2 | *P. praetextata* | Spahats Creek | FJ708904 | KC437723 | Via |
| HOB030611-10-0-4 | *P.* sp. 20 | Battle Creek | FJ708909 | KC437728 | VIa |
| HOB030611-10-5-3 | *P*. sp. 20 | Battle Creek | FJ708910 | KC437729 | VIa |
| HOB020708-62-1-1 | *P.* sp. 20 | Spahats Creek | FJ708907 | KC437726 | VIa |
| HOB020708-66-1-4 | *P*. sp. 20 | Spahats Creek | FJ708908 | KC437727 | VIa |
| HOB040605-12-1 | *P. venosa* | Barkersville | KC437649 | KC437899 | VIa |
| HOB020708-4-5-3 | *P. venosa* | Spahats Creek | KC437590 | KC437851 | VIa |
| HOB020708-70-1-8 | *P. venosa* | Spahats Creek | KC437591 | KC437862 | VIa |